| In | idex of | Claims |  |
|----|---------|--------|--|
|    |         |        |  |

Application/Control No.

Timothy M. Brown

09/842,628

Reexamination ROBERTS ET AL.

Applicant(s)/Patent under

Examiner

**Art Unit** 

1648

Rejected Allowed

(Through numeral) Cancelled ÷ Restricted

Non-Elected Interference

**Appeal** 0 Objected

|  |  |  |  |              |                                     |              | ,  |          |          |                 |
|--|--|--|--|--------------|-------------------------------------|--------------|--|----------|----------|-----------------|
|  |  |  |  |              |                                     |              |  |          |          |                 |
| Cla  | aim  | Date   |  |              |                                     |              |  |          |          |                 |
|  | -  | 12/11  | L  |              |                                     |              |  |          |          |                 |
| Final  | Original   | 1,,  | ١.   |              |                                     |              |  |          |          | ll              |
| liÈ  | Ē.   |  |  |              | İ                                   |              | ŀ  |          |          | 1 1             |
|  | 0  | US   | 1  |              |                                     |              |  |          |          |                 |
|  | 1,1  | -  | -  | -            | $\vdash$                            |              |  |          |          | Н               |
| $\vdash$   | 1  | $\vdash$   | ┢  | ┝─           | ┢                                   | _            | -  | -        | -        | $\vdash$        |
| $\vdash$   | 2  | $\vdash$   | ┝╌   | _            | ┢                                   | $\vdash$     |  |          |          | $\vdash$        |
| $\vdash$   | 2  | $\vdash$   | ┝  |              |                                     |              | _  | ├        | ⊢        | $\vdash$        |
| ├─   | 4  | ├—   | ⊢  | -            | -                                   |              |  | -        | H        | $\vdash$        |
| <u> </u>   | 2  | -  | -  | _            | <u> </u>                            | _            | -  |          | H        | Н               |
| <u> </u>   | 8  | <del> </del>                                     | ├—   | _            | $\vdash$                            |              | -  |          | H        | Н               |
|  | 9  | ├-   | <u> </u>   | <u> </u>     | -                                   | _            |  | _        | <u> </u> | Н               |
|  | 2  | <u> </u>   | <u> </u>   | ļ            | <u> </u>                            | _            | _  | _        | ļ        | Н               |
|  | 0  | L  |  |              | _                                   |              |  |          |          | Ш               |
|  | <b>(10</b>   | <u> </u>   |  | _            | L_                                  | <u> </u>     | <u> </u>   | <u> </u> |          | Ш               |
| <u> </u>   | 42   | _  | <u> </u>   | <u> </u>     | <u> </u>                            | <u> </u>     | <u> </u>   | _        |          | Ш               |
|  | 12   | L  |  | $oxed{oxed}$ | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>     | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$     | L        |          | Ш               |
|  | 13   |  |  |              |                                     |              |  |          |          |                 |
|  | 14   | $L^{-}$  |  | L            |                                     | L            |  |          |          |                 |
|  | 757  |  |  |              |                                     |              |  |          |          |                 |
|  | 16   |  | Г  | Г            | Г                                   | Г            |  |          |          | П               |
|  | 17   |  |  |              |                                     |              |  |          |          | П               |
|  | 48   | 7  |  |              |                                     |              |  |          |          | П               |
|  | 180  |  | Г  |              |                                     |              |  |          |          | П               |
|  | 20,  |  |  |              |                                     |              |  |          |          | П               |
|  | 21   |  |  |              |                                     |              |  |          |          | П               |
|  | 21   |  | 1  |              | $\vdash$                            | ┢            | _  |          |          | П               |
|  | 28   |  |  |              |                                     |              |  |          |          | H               |
|  | 24   |  |  | _            | Г                                   | T            |  |          |          | Н               |
|  | 25   | ┪  | $\vdash$   | $\vdash$     | _                                   | $\vdash$     |  |          |          | Н               |
|  | 267  | <u> </u>   | <del>                                     </del> | ┪            | 1                                   | <b>—</b>     | _  | _        |          | Н               |
|  | 127  | <del>                                     </del> |  | Г            | $\vdash$                            |              |  |          |          | Н               |
|  | 27<br>28   |  | $\vdash$   |              |                                     | $\vdash$     |  |          |          | Н               |
|  | 29   | _  | $\vdash$   |              |                                     | _            | <del>                                     </del> |          |          | Н               |
| -  |  | $\vdash$   | ┢  | -            |                                     |              | -  |          | $\vdash$ | H               |
| <del>  </del>                                    | 337  | $\vdash$   | -  | -            | -                                   | -            | -  |          |          | H               |
|  | 327  | $\vdash$   | $\vdash$   | ┝            | _                                   |              | -  |          | -        | Н               |
| <del>                                     </del> | /  | -  | H  | $\vdash$     | _                                   | -            | ┝  | ┢┈       | -        | Н               |
| <u> </u>   | 33   | -  | $\vdash$   | $\vdash$     | $\vdash$                            | $\vdash$     | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash \vdash$ |
| <u> </u>   | 85   | $\vdash$   | $\vdash$   | $\vdash$     | -                                   | -            | $\vdash$   | ┢        | $\vdash$ | $\vdash$        |
| <b></b> -  | AA   | $\vdash$   | $\vdash$   | ┝            | $\vdash$                            | ┢╌           | $\vdash$   | $\vdash$ | H        | Н               |
| <del> </del>                                     | 86<br>37   | $\vdash$   | $\vdash$   | ├-           | <del> </del>                        |              | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash\vdash$  |
| ├  | 38   | -  | $\vdash$   | <del> </del> | $\vdash$                            | $\vdash$     | $\vdash$   | $\vdash$ | H        | $\vdash\vdash$  |
| <del> </del>                                     | 1207   | $\vdash$   | $\vdash$   | ├            | -                                   | <del> </del> | ├  | $\vdash$ | $\vdash$ | Н               |
| <u> </u>   | 200  | ├  | ├  | -            | $\vdash$                            | $\vdash$     | ├-   | ┝        | Н        | Н               |
| $\vdash$   | 741  | ├  |  | ├            | $\vdash$                            | ⊢            | <del> </del>                                     | $\vdash$ | $\vdash$ | Н               |
| <b> </b>   | 4  | <u> </u>   | $\vdash$   | $\vdash$     | ├                                   | $\vdash$     | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash\vdash$  |
| <u> </u>   | 44   | <u>.                                    </u>     |  | $\vdash$     | $\vdash$                            | $\vdash$     | $\vdash$   | ├        | $\vdash$ | Н               |
| $\vdash$   | 1 1 1  | <del> </del>                                     | $\vdash$   | $\vdash$     | <u> </u>                            | <u> </u>     | $\vdash$   | ├—       | $\vdash$ | Н               |
| <u> </u>   | 44   | <del> </del>                                     |  | <u> </u>     | <u> </u>                            | <u> </u>     | <u> </u>   | <u> </u> | $\vdash$ | $\vdash \vdash$ |
|  | 457  | <u> </u>   | <u> </u>   | <b>!</b> —   | ⊢                                   | <u> </u>     | <u> </u>   | $\vdash$ | <u> </u> | Щ               |
|  | 46   | <u> </u>   | <u> </u>   | <u> </u>     | <u> </u>                            | <u> </u>     | <u> </u>   | <u> </u> |          | Н               |
| <u> </u>   | 4/7  | <u> </u>   | <u> </u>   | <u> </u>     | <u> </u>                            | <u> </u>     | <u> </u>   | <u> </u> | _        | Н               |
|  | 487  | <u> </u>   | L  | <u> </u>     | <u> </u>                            | <u> </u>     | <u> </u>   | $\vdash$ | _        | Ш               |
| ļ  | 41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>48<br>50 |  | Щ  |              | <u> </u>                            | $\vdash$     |  | $\vdash$ | _        | Ш               |
| L  | 50   |  | Ш  |              |                                     |              |  |          | L_       | Ш               |

| Cla      | aim  |               |                                     |  |  | Date                                | •        |  |              |               |
|----------|--|---------------|-------------------------------------|--|--|-------------------------------------|----------|--|--------------|---------------|
|          | Original   | 12            |                                     | Γ  |  |                                     |          |  |              |               |
| <u></u>  | a  | <del>ار</del> | _                                   |  |  |                                     |          |  |              |               |
| Final    | . <u>ā</u>   | ښ'            |                                     |  |  |                                     |          |  |              |               |
| "        | ō  | 02            |                                     |  |  |                                     |          |  |              |               |
| ļ        | 51 52 53 55 56 57  | _             |                                     | _  | -                                      | _                                   | _        | _  | _            |               |
| <u></u>  | 514  |               | <u> </u>                            |  |  |                                     |          |  |              |               |
|          | 52   | 7             | _                                   |  |  |                                     |          |  |              |               |
| L        | 53   | 1             | L                                   | $ldsymbol{f eta}$                                |  |                                     |          |  |              |               |
| L        | <b>经</b>   |               |                                     |  |  |                                     |          |  |              |               |
|          | 55   | <u> </u>      |                                     |  |  |                                     |          |  |              |               |
|          | 56   | =             |                                     |  |  |                                     |          |  |              |               |
|          |  | 11            |                                     |  |  |                                     |          |  |              |               |
|          | 58<br>59   |               |                                     |  |  |                                     |          |  |              |               |
|          | 59   |               |                                     |  |  |                                     |          |  |              |               |
|          | 60   |               |                                     |  | П                                      |                                     | _        |  |              |               |
|          | 61   | _             |                                     | $\vdash$   |  | $\vdash$                            |          |  |              |               |
|          | 62   | $\vdash$      | $\vdash$                            | <del>                                     </del> | $\vdash$                               | Н                                   | Н        | Н  | _            |               |
| <b></b>  | 63   |               | $\vdash$                            |  | $\vdash$                               | Н                                   | $\vdash$ | $\vdash$   | -            | $\vdash$      |
| $\vdash$ | 64   | <del> </del>  | ├                                   | $\vdash$   |  | $\vdash$                            | $\vdash$ | -  | $\vdash$     | $\vdash$      |
| <u> </u> | 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>80<br>81 | $\vdash$      | $\vdash$                            | $\vdash$   | $\vdash$                               | $\vdash$                            | ├        |  | <del> </del> | $\vdash$      |
|          | 65   | $\vdash$      | $\vdash$                            | $\vdash$   | $\vdash$                               | $\vdash$                            | $\vdash$ | $\vdash$   | $\vdash$     |               |
| -        | 00   | _             |                                     | <u> </u>   |  | _                                   | _        | <u> </u>   | <u> </u>     | _             |
| <u></u>  | 67   |               | ļ                                   | <u> </u>   |  | _                                   | _        |  | _            | _             |
| <u> </u> | 68   |               | _                                   | <u> </u>   | _                                      | <u> </u>                            | _        |  | _            | _             |
|          | 69   |               |                                     | ļ  |  |                                     |          |  |              |               |
| ļ        | 70   |               | _                                   | L  | L                                      |                                     |          |  |              |               |
|          | 71   |               |                                     |  |  |                                     |          |  |              |               |
|          | 72   |               |                                     |  |  |                                     |          |  | L            |               |
|          | 73   |               |                                     |  |  |                                     |          |  |              |               |
|          | 74   |               |                                     |  | Г                                      |                                     |          |  |              |               |
|          | 75   | Γ             |                                     | Г  | Г                                      |                                     |          |  | Г            |               |
|          | 76   |               |                                     |  |  |                                     | ·        |  |              |               |
|          | 77   | Т             |                                     | ┢  | $\vdash$                               |                                     |          |  |              | $\overline{}$ |
|          | 78   |               | 1                                   |  |  |                                     |          |  |              |               |
|          | 79   |               | Н                                   | $\vdash$   |  |                                     |          |  |              | $\vdash$      |
|          | 80   |               | ┢                                   |  |  |                                     |          |  |              |               |
|          | 81   |               |                                     | -  |  | $\vdash$                            |          |  | $\vdash$     |               |
| <u> </u> | 82   | ⊢             | ┝                                   | $\vdash$   | $\vdash$                               | $\vdash$                            | $\vdash$ | -  | -            | <del> </del>  |
|          | 83   | ⊢             | ┝                                   | $\vdash$   | -                                      | -                                   | _        | -  | _            |               |
|          | 94   | $\vdash$      | $\vdash$                            | -  | $\vdash$                               | $\vdash$                            | -        | $\vdash$   | $\vdash$     | -             |
| -        | 84<br>85   | <del> </del>  | ⊢                                   | $\vdash$   | -                                      | $\vdash$                            | $\vdash$ | $\vdash$   |              | <del> </del>  |
| <u> </u> | 00   | <del> </del>  | ├                                   | $\vdash$   | $\vdash$                               | -                                   | $\vdash$ |  | -            | _             |
| -        | 86<br>87   | <u> </u>      | ├                                   | <del> </del>                                     | $\vdash$                               | -                                   | -        | $\vdash$   | <u> </u>     | _             |
| <u> </u> | 07   | ├             |                                     | _  |  |                                     | ├        | <u> </u>   | <b>—</b>     | -             |
| <u> </u> | 88   | <u> </u>      | <u> </u>                            | $\vdash$   | _                                      | <u> </u>                            | $\vdash$ | $\vdash$   | _            | _             |
|          | 89   | <u> </u>      | <u> </u>                            | <u> </u>   |  | <u> </u>                            |          |  | _            |               |
| <u></u>  | 90   | <u> </u>      | <u> </u>                            | $\vdash$   | L_                                     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | oxdot    |  | <u> </u>     | _             |
|          | 91   | L.            | <u> </u>                            | $oxed{oxed}$                                     | L.                                     | oxdot                               | _        | Ц.   | L_           | L             |
|          | 92   |               | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |  | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | <u> </u>                            | _        | $ldsymbol{ld}}}}}}$ | _            | _             |
|          | 93   |               | L                                   |  |  | L                                   | L        | L  | L            |               |
|          | 94   |               |                                     |  |  |                                     |          |  | $\Box$       |               |
|          | 95   |               |                                     |  |  |                                     |          |  |              |               |
|          | 96   |               |                                     |  |  |                                     | Π        |  |              |               |
|          | 97   |               | Г                                   |  |  |                                     |          |  |              |               |
|          | 98   |               | $\vdash$                            | Г  | Г                                      | П                                   | Г        |  | Г            | $\overline{}$ |
|          | 99   | T             | $\vdash$                            |  | _                                      | _                                   | $\vdash$ |  |              |               |
| $\vdash$ | 100  | Т             | $\vdash$                            | Н  | Н                                      | Н                                   | Н        | Г  |              | $\vdash$      |

| Cla        | aim        | Date     |                    |                              |          |              |              | $\dashv$         |              |                |
|------------|------------|----------|--------------------|------------------------------|----------|--------------|--------------|------------------|--------------|----------------|
| Final      | Original   |          |                    |                              |          |              |              |                  |              |                |
|            | 101        |          |                    |                              |          | _            |              |                  |              |                |
|            | 102        |          | _                  |                              |          |              |              |                  |              |                |
|            | 103        |          |                    |                              |          |              |              |                  |              |                |
|            | 104        |          |                    |                              |          |              |              |                  |              |                |
|            | 105        |          |                    |                              |          |              |              |                  |              |                |
|            | 106        |          |                    |                              |          |              |              |                  |              |                |
|            | 107        |          |                    |                              |          |              |              |                  |              |                |
|            | 108        |          |                    |                              |          |              |              |                  |              |                |
|            | 109        |          |                    |                              |          |              |              |                  |              |                |
|            | 110        |          |                    |                              |          |              |              |                  |              | Ш              |
|            | 111        |          | Ш                  |                              | Ш.       | Ь.           | <u> </u>     | Ш                | L            | Щ              |
|            | 112<br>113 | L        | $ldsymbol{\sqcup}$ | <u> </u>                     | <u> </u> | L            | <u> </u>     | L                |              | Щ              |
|            | 113        | Ш        | L.,                | <u> </u>                     | <u> </u> | <u> </u>     | <u> </u>     | $\vdash$         |              |                |
|            | 114<br>115 | <u> </u> | L_                 | <u> </u>                     | <u> </u> | L            | <u> </u>     | $\vdash$         | <u> </u>     | Щ              |
|            | 115        |          |                    | <u> </u>                     | L.       | <u> </u>     | <u> </u>     | _                |              |                |
|            | 116        | $\vdash$ |                    | <u> </u>                     | _        | _            | _            | L                |              |                |
|            | 117<br>118 |          |                    |                              | _        | $\vdash$     | _            | L                | _            | $\square$      |
|            | 118        | _        |                    | _                            | <u> </u> | <u> </u>     | ļ            | L                | _            |                |
|            | 119        |          | _                  | -                            | -        | L            |              | _                | _            | -              |
|            | 120        |          | _                  | <u> </u>                     | <u> </u> |              |              | -                | <u> </u>     | Н              |
| -          | 121<br>122 | <u> </u> |                    |                              | <u> </u> | -            |              | -                | <u> </u>     | Н              |
|            | 122        | _        |                    | ⊢                            | <u> </u> | <del> </del> | <del> </del> | ├                | <del> </del> | Н              |
|            | 123<br>124 | <u> </u> | _                  | ├—                           |          | -            | ├            | H                | <del> </del> | $\vdash\vdash$ |
|            | 125        | -        |                    | ├                            | ├—       | ├            | _            | $\vdash$         | ⊢            | Н              |
|            | 125        | -        |                    | -                            | $\vdash$ | ⊢            | $\vdash$     | $\vdash$         | $\vdash$     |                |
|            | 126<br>127 | ┝        | _                  | ┢                            | -        | ├─           |              | -                | $\vdash$     | H              |
|            | 128        |          |                    |                              | -        | -            | ┝            | $\vdash$         | -            | Н              |
|            | 129        |          | _                  | $\vdash$                     | $\vdash$ | $\vdash$     |              | $\vdash$         |              | $\vdash$       |
|            | 130        |          |                    |                              | $\vdash$ |              |              |                  | -            | $\vdash$       |
|            | 131        |          |                    | -                            | H        | $\vdash$     | $\vdash$     | H                | $\vdash$     | $\vdash$       |
|            | 132        | Н        | _                  | -                            | ┝        | $\vdash$     | $\vdash$     | H                |              |                |
|            | 133        |          |                    |                              | Н        | $\vdash$     |              |                  |              | $\Box$         |
|            | 134        |          |                    |                              |          | _            |              | $\vdash$         |              |                |
|            | 135        |          |                    | Г                            | Г        |              | Ι.           |                  |              |                |
|            | 136        |          |                    |                              |          |              |              |                  |              |                |
|            | 137        |          |                    |                              |          |              |              |                  |              |                |
|            | 138        |          |                    |                              |          |              |              |                  |              |                |
|            | 139        |          |                    |                              |          |              |              |                  |              |                |
|            | 140        |          |                    |                              |          | L.           |              | Ĺ                | <u> </u>     |                |
|            | 141        |          |                    |                              | <u> </u> |              |              | $ldsymbol{oxed}$ | $oxed{\Box}$ |                |
|            | 142        | Ш        |                    |                              | _        | _            | <u>L</u>     | L                | L            | Ш              |
|            | 143_       | Ш        | <u> </u>           | $ldsymbol{ldsymbol{\sqcup}}$ | <u> </u> | <u> </u>     |              | $\vdash$         | $\vdash$     | Ш              |
| L          | 144        | oxdot    | L_                 | <u> </u>                     |          | <u> </u>     | L            | <u> </u>         | L.           |                |
| lacksquare | 145        |          |                    | $\vdash$                     | _        | <u> </u>     | <u> </u>     | $\vdash$         | $\vdash$     |                |
| L          | 146        | $\vdash$ | ļ                  | <u> </u>                     | <u> </u> | <u> </u>     | <u> </u>     | <u> </u>         | <u> </u>     | Щ              |
|            | 147        | L        | <u> </u>           | <u> </u>                     | <u> </u> | <u> </u>     | <u> </u>     | $\vdash$         | <u> </u>     | Ш              |
| L          | 148        | $\vdash$ | <u> </u>           | <del> </del>                 | <u> </u> | <u> </u>     | <u> </u>     | <u> </u>         | $\vdash$     | $\vdash$       |
|            | 149        | _        | L                  | <u> </u>                     | ├-       | <u> </u>     | <u> </u>     | <u> </u>         | <u> </u>     | $\vdash$       |
|            | 150        |          | نـــا              | <u> </u>                     | <u></u>  |              | <u> </u>     | Ц                | L            | Ш              |